The Cattle Guard

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SOURCES OF INFORMATION

See the List of Contributors of Information for the names, titles (where known or pertinent), and addresses of the persons who furnished information.

CHAPTER 1
THE CATTLE GUARD: AN OVERVIEW

Some of the information about the time- and energy-saving aspects of cattle guards was provided by Kenny DeDonder; Terry DeDonder; Ray Pierce; Ralph Ricketts; George L. Smith; and George R. Sollenberger.

Some of the information about the use of cattle guards in eastern states was provided by Bryan Baker; James M. Beattie; W. H. Collins; Clarence Day; Kenneth E. Felton; Danny G. Fox; Stewart Gibson; George F. Grandle; Walter A. Gross; George F. W. Haenlein; Ralph R. Harris; W. L. Harris; James F. Hentges, Jr.; Lynette S. Hoffman; Benjamin A. Jones, Jr.; Charles Kuralt; Louis A. Malkus; Edward T. Oleskie; Wiley Roger Pope; Harlan D. Ritchie; David C. Smith; Richard J. Vatthauer; and S. H. Wittwer.

Other information in this chapter was provided by Robert Clarke; Walter Eitner; and Glenn Ohrlin.

CHAPTER 2
THE NEED FOR CATTLE GUARDS

Information on fences and fencing was found in these published sources:

Information on the development of the automobile in the United States and the importance of automotive vehicles to agriculture was found in:


———. *Yearbook . . . for 1921*, pp. 505, 789.

Information on gates was found in:

"Has Anyone Seen This Gate Before?" *McKenzie County (N.Dak.) Farmer*, 16 February 1978, p. 11.

Martin, George A. *Fences, Gates, and Bridges: A Practical Manual*. Brattleboro, Vt.: Stephen Greene Press, 1974. Originally published in 1887. *Scientific American* in the 1890s reflected the need for an easily operated gate by publishing the following articles, listed by date and the name and address of the inventor:

- 8 November 1890, p. 291; Charles Oesterling, Barnharts Mills, Pa.
- 4 February 1893, p. 73; Silas Portis, Monrovia, Ind.
- 24 June 1893, p. 389; John H. Williams, St. Vincent, Ky.
- 13 January 1894, p. 20; Levi W. Youngs, New York
- 16 June 1894, p. 372; Richard T. Mulcahy, Rosenberg, Tex.
- 9 July 1898, p. 24; Theodore Sawyer, Towanda, Ill.
- 17 September 1898, p. 180; Peyton B. Green, Wytheville, Va.
- 8 October 1898, p. 228; Benjamin F. Strange, Corvallis, Mont.


Information about bump gates came from Marlene Bowman; Roy ("Cap") Carpenter; O. E. ("Whitey") Cowsar; Mason Crocker; Fred B. Curry; Dudley Dobie; Dave Dodd; Kim Harsh; Dr. W. Curry Holden; Tracy King; M. H. Leining; John R. Shaw; Mrs. Corwin Trosper; C. W. Wimberley; and Viola Wyland.

Information about other types of gates was provided by George W. Altland; D. Neil Cowan; Mason Crocker; Norman Dahl; Lon J. Godley; Lyman Linger; Jim McEndree; Roy D. Mockamer; Ira ("Ike") Osteen; Carl Rauch; Elvis Riggs; Ralph R. Robinson; G. M. Sawyer; R. S. Shipman; Wilbur R. Thompson; Otis Wheat; and C. W. Wimberley.

Information on electrified gates came from brochures issued by the Farnum Co. and the Acme Manufacturing Co. James E. ("Pete") Hatch, John Ortmann, and Wilbur R. Thompson gave me information about these devices.

Information and comments on the relative merits of gates versus cattle guards came from:


Individuals who contributed information on this subject were: Helen Amsberry; Orville Burtis, Sr.; Fred B. Curry; Richard Etulain; Charles Evans; Mrs. Frank Fleck; Ray ("Turk") Harsh; William M. Jolly; Emmett LeFors; R. L. McCammon; Robert M. Magee; E. Paul Orcutt; Ira ("Ike") Osteen; Mabel Hickman Pearson; Earl E. Perkins; Lewis E. Phillips; Mrs. Ben Price, Sr.; James Rexroat; Ralph R. Robinson; L. H. Wellner; Thomas W. Winkler; and C. G. Wood.
CHAPTER 3
CATTLE-GUARD INNOVATORS, 1900 TO 1920

Information for this chapter came in part from these published sources:

"Bridging a Fence for an Automobile." Popular Mechanics, May 1909, p. 481.
"Grooved Tracks Are Used as Automobile Bridge." Popular Mechanics. September 1914, p. 398.

Information on Andrew Johnston came in part from:


Other information about Andrew Johnston came from Larry Adams; Joyce Byerly; Ralph Christensen; Robert Cory; C. J. Goddard; Carroll Johnston; Brooks Keogh; and Larry Remele.

Other information in this chapter was provided by Everett Anderson; Helen Bradford; Ralph H. Clark; O. E. ("Whitey") Cowsar; Frank Dieter; Dudley Dobie; John Eggen, Sr.; Charles Evans; Pollie Allen Fitch; Lon J. Godley; Dr. W. Curry Holden; Dr. Myra Ellen Jenkins; William M. Jolly; Bill King; Raymond Lauppe; Albert Lawlis; Lady Ruth K. Lowther; Jim McEndree; George McKinney; Victor Merrihew; Alfred Meyer; W. C. Mills; Ira ("Ike") Osteen; Mabel Hickman Pearson;
CHAPTER 4
THE SPREAD OF CATTLE GUARDS, 1920 TO 1930

Information for this chapter came in part from:

Gentry, Raymond R. "The Old Auto Gates." Grant County (Nebr.) News, 17 August 1978.

Other information came from W. D. Aeschbacher; Essie Alexander; Lawrence Alexander; K. T. Anderson; Frank Arndt; Walt Arnett; Helen Bradford; Aeola H. Brennemann; Bill Browning; Orville Burtis, Sr.; Roy ("Cap") Carpenter; Tom Case; Ralph H. Clark; O. E. ("Whitey") Cowsar; Mason Crocker; Fred B. Curry; C. E. Dauman; Mary Etta Funk Davidson; Richard Etulain; Marion Everhart; Don Fowler; Wayne Geer; Raymond R. Gentry; Lon J. Godley; W. R. Grantham; Kenneth Hoy; Mildred Jones; Emmett LeFors; Ruth Lynn; R. L. McCammon; Alfred Mercer; David Mercer; W. C. Mills; E. Paul Orcutt; Minnie Paugh; Mabel Hickman Pearson; Lewis E. Phillips; Melba Prewitt; Raymond Prewitt; Conwy Rees; Ralph L. Ricketts; Ralph R. Robinson; Sheila Robinson; Wayne Rogler; Elmer W. Sass; Lowell Scribner; John R. Shaw; David E. Smith; Everett Troyer; Ona Troyer; Albert B. Tuttle; Otis Wheat; Mrs. R. Wilkinson; Green D. Wyrick; A. G. ("Jim") Young; and "Slim" Zimmerman.

CHAPTER 5
THE RAILROAD CATTLE GUARD

Background material on railroad history was found in:

These track manuals were consulted:


Huntington, William S. *The Road-Master's Assistant and Section-Master's Guide.* Revised and enlarged by Charles Latimer. 6th ed. New York: Railroad Gazette, 1881, pp. 34–35. (The section on cattle guards was unchanged from that in the original edition of 1871.)


Descriptions of railroad cattle guards were taken from the preceding sources, from the *U.S. Patent Gazette,* and from:


“Scaring the Cattle off the Tracks.” *Scientific American,* September 1923, p. 171.

Legal material concerning railroad cattle guards came from:


Comments on James Hill were made by Joel Overholser. Hill’s attitude toward the upgrading of livestock was reported in:


Other information in this chapter was taken in part from these published sources:


“Railroad Cattle Guard Used in India.” *Popular Mechanics,* March 1913, p. 392.

Material on Thomas J. West, the name West, and the Cornish in Virginia came from Patricia L. Taylor, Mabel Apple Talley, and Rebecca E. Bordwine and from
the following published sources. Those marked with an asterisk were provided by Mrs. Talley.

*William and Mary College Quarterly,* ser. 1, vol. 8, p. 194.

These persons from railroad companies, railroad historical societies, and the U.S. Patent Office provided information for this chapter: Bill Armstrong, engineer of buildings, Chicago & North Western Railway Co.; Anne O. Bennof, manager, Education and Information Services, Association of American Railroads; Harriette C. Black, librarian and curator, Newcomen Society in North America; Bill Burk, vice-president for public relations, Atchison, Topeka & Santa Fe Railroad Co.; Louis T. Cerny, acting executive director, American Railway Engineering Association; Barry B. Combs, director of public relations, Union Pacific Railroad Co.; commissioner of patents, Ottawa, Canada; P. Allen Copeland, Pacific Southwest Railway Museum; B. Gallagher, British Railways Board, London; Donald W. Ginter, curator, Mid-Continent Railway Historical Society; Howard F. Greene, president, Railway and Locomotive Historical Society; D. E. Hoadley, principal engineer-staff, Delaware & Hudson Railway Co.; Nick Kallas, general manager, Illinois Railway Museum; W. A. McKenzie, director of information services, Burlington Northern Railroad Co.; Robert A. Matthews, vice-president, Railway Progress Institute; David J. Neubauer, publicity director, Wabash, Frisco & Pacific Association; Mrs. J. A. Sullivan, examiner, Classification Section, Patent Office, London; Richard Teeter, advertising and technical publications supervisor, Tamper Division, Canron Corp.; and V. Allan Vaughn, president, National Railway Historical Society.

Other information in this chapter was provided by B. G. Baker; Mary Baker; Ed­win H. Bredemeier; J. Warren Brinkman; W. J. Campbell; J. G. Côté; D. Neil Cowan, Mrs. Donald B. Crane; John Farthing; Warren Godfrey; W. C. Gordon; Gene M. Gressley; Clay Hardy; Keith Hayes; Bud Hills; Adam Horst; Melvin L. Johnson; Jesse Jordan; Tom L. Kern, Jr.; Tracy King; James Kiser; Karen Laughlin; Raymond Lauppe; M. H. Leining; Marcus Lind; R. L. McCammon; F. B. McCann; Otto Michetti; Rex C. Myers; Joseph A. Noble; E. Paul Orcutt; Joel F. Overholser; Victor H. Pastor; Dallas Perry; Lewis E. Phillips; W. C. Phillips; Wayne Rogler; Richard Smith; Mabel Apple Talley; Patricia L. Taylor; Jerry Underwood; Wayne Wangsness; C. G. Wood; and A. F. Young.

CHAPTER 6
CORNISH STILES, LICH GATES, AND CATTLE GUARDS

Information for this chapter came in part from these published sources:


Courtney, M. A. *Cornish Feasts and Folk-Lore*. Penzance: Beare & Son, 1890.


Information on dry moats and ha-has was given to me by Richard Eversole; Donald Perry; Ray Purinton; and Eric Sloane.

Letters about Cornish stiles have been published in these British journals:


In response to my queries about Cornish stiles in *Country Life, Farmer's Weekly*, and *Field*, I received letters from W. F. H. Ansell, Trendrine, St. Ives, Cornwall; Harold H. Aston, Warley, West Midlands; John V. Berryman, Datchet, Slough, Berkshire; S. G. Bryant, Henley-on-Thames, Oxfordshire; T. R. Faull, Bude, Cornwall; William W. Gilroy, Looe, Cornwall; Thomas Frederick Gwennap, St. Buryan, Cornwall; Dennis Jeffreys, Crawley, Sussex; Richard Jemmett, Saffron Walden, Essex;
CHAPTER 7
LORE ABOUT CATTLE GUARDS

Information for this chapter came in part from these published sources:


McDonough, Doug. “Farm Scene.” *Plainview (Tex.) Daily Herald*, 22 October 1978, p. 8-B.


In addition to material gleaned from reference works such as the Oxford English Dictionary and Dictionary of Americanisms, information about names for cattle guards came from Helen Amsberry; Steven A. Bealby; Don Bell; Aeola H. Brennemann; Howard C. Brown; Mrs. Burton Buchman; W. J. Campbell; Arthur Carmody; Roy ("Cap") Carpenter; Elmer Cooper; D. Neil Cowan; Dennis W. Cowan; Bill Dale; William Delinger; Thelma Diffey; W. H. Dorris; Virgil E. Enfield; Charles Evans; Mrs. Frank Fleck; Mrs. Paul Frey; Wayne Geer; Raymond R. Gentry; Jack Glover; W. C. Gordon; Dr. W. Curry Holden; Raymond Hull; Alex Johnston; Bill King; Gloria Krueger; George W. McKinney; Victor H. Merrihew; David Miller; Earl H. Monahan; D. J. Newberry; Jennifer Nicol; E. Paul Orcutt; Ira ("Ike") Osteen; Margaret Reed; A. D. Ridge; Ralph R. Robinson; Robert L. Rothwell; Elmer W. Sass; G. M. Sawyer; Norman Schlesener; "Lucky" Simpson; Matthew M. Syler; Kaye Y. Turner; Leland J. Turner; Bud Winger; DeEtta Winger; Thomas W. Winkler; C. G. Wood; and Charles L. Wood.

Information and opinions about the effectiveness of cattle guards and improvement of them were provided by Lawrence Alexander; Arthur Carmody; Roy ("Cap") Carpenter; Don Coldsmith; George M. Constantino; Elmer Cooper; Dennis W. Cowan; Charles Evans; Robert F. Fankhauser; Cecil Farthing; James Fisher; Mabel Fletcher; Jack Glover; Warren Godfrey; W. R. Grantham; Ray ("Turk") Harsh; Clair Houseman; Mildred Jones; Christina Kemper; Bill King; Tracy King; Tom McCrea; George W. McKinney; David Mercer; David Miller; Earl H. Monahan; John Ortman; Ira ("Ike") Osteen; Frank Parsons; Melba Prewitt; Raymond Prewitt; Elmer Priefert; Ray Purinton; James Rexroat; Tom Rice; Ralph L. Ricketts; Sheila Robinson; Robert L. Rothwell; John Sautter; "Lucky" Simpson; David E. Smith; E. A. Stephenson; Elmore Stout; Floyd Thompson; Everett Troyer; L. H. Wellner; Larry Whitmer; William J. Williams; C. W. Wimberley; Thomas W. Winkler; and C. G. Wood.

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Information about cattle-guard humor came from Rosemarie Blundell; Alice Bullock; Ralph D. Falconer; Charlie Femling; Tracy King; Doug McDonough; Yvonne J. Milspaw; Rowland Nethaway; Raymond Prewitt; "Ace" Reid; Britton Thompson; Donald Thompson; and Merle Walker.

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CHAPTER 8
UNUSUAL CATTLE GUARDS

Printed source materials for this chapter include the *U. S. Patent Gazette*; advertising brochures from the Smith Cattleguard Co., the U.S. Cattle Guard Corp., and the Parker-McCrory Manufacturing Co.; newspaper clippings (from Oregon and Northwest newspapers) sent by Ernest Wells; specification sheets from state highway departments in the western states; University of Missouri Extension Service Bulletin #6-778-C1; and the following books and articles:


Highway-department officials from the following states sent information about painted-stripe cattle guards: Arizona, Arkansas (Lawrence Fletcher), California (E. B. Thomas), Colorado, Idaho, Iowa (Dwight L. Stevens), Kansas (LeRoy Pitt and Glenn Anschutz), Louisiana (S. N. Whitthorne and Gorman S. Pounds), Minnesota (R. A. Adolfson), Missouri (Robert N. Hunter), Montana (Stephen C. Kologi and H. J. Anderson), Nebraska (Fred B. Nelson and A. H. Dederman), Nevada (Frank Smyth), New Mexico (Ronald F. Ripley), North Dakota (Floyd Robb), Oklahoma (Max J. Hinderliter), Oregon (R. P. Hamilton), South Dakota (Marlin Larson), Texas (Byron C. Blaschke and B. L. DeBerry), Utah (J. Q. Adair), Washington (D. D. Ernst), and Wyoming (Jeffrey W. Couch).

Information, questions, and comments about painted-stripe cattle guards came from John W. Aldrich; Ted Baehr; T. Lindsay Baker; John B. Curtis; Mary Etta Funk Davidson; Mrs. Nicholas DeLollis; Steven K. Disch; C. O. (“Pete”) Erwin; G. Ward Fenley; Gordon W. Fleming; James T. Forrest; Jackie Glenn; James Glenn; Raymond Hull; Virgil Johnson; Mrs. Virgil Johnson; John A. Kennedy; Bill King; Charles E. Lacey; Lyman Linger; Mrs. H. R. Luster; Richard G. Marek; Ken Martin; Victor H. Merrihew; Louise Miller; Jerald W. Pereto; Dallas Perry; Della Oldham Phillips; Don Reese; Tom Rice; Henry Rozier; Sandy Schulz; “Lucky” Simpson; Charlene Slagowski; M. K. Swingle; Karen Swoyer; Matthew M. Syler; Elizabeth Triplett; Bob Wade; Connie Wade; Richard Walk; Chick Watson; John M. White; Mrs. R. Wilkinson; C. W. Wimberley; and C. G. Wood.

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CHAPTER 9
MAKERS OF CATTLE GUARDS

Brochures provided by these manufacturers of cattle guards were used in gathering information for this chapter: Christianson Pipe, Ltd., Calgary, Alberta; Clark Materials Co., Lexington, Ky.; Goshute Enterprises, Ibapah, Utah; Northland Steel Co., Billings, Mont.; Powder River Enterprises, Provo, Utah; Smith Cattleguard Co., Midland, Va.; Wedco Manufacturing Co., Jackson, Wyo.; and Wikco Industries, Inc., Broken Bow, Nebr.

Other information in this chapter was provided by Lee H. Christianson; Ralph D. Clark; Dan Cookson; James H. Ebbinghaus; Paul K. Edmunds; Darrel Godfrey; Warren Godfrey; W. R. Grantham; Harold B. Halter; Vickie Homfeld; Adam N. Horst; Jackson M. Ideen; Melvin L. Johnson; Frank Parsons; Lynn Pearson; Tom Rice; Tere Rill; Mick Sage; Robert K. Schnell; and Meredith Spencer.

CHAPTER 10
THE ECONOMICS OF CATTLE GUARDS

Information for this chapter was provided by G. R. Brainard, Jr.; Floyd D. Culver; E. G. ("Ty") Dahlgren; L. E. Fitzgarrald; James O. Kemm; Fred H. Lester; Richard L. Manning; Ralph L. Ricketts; Hailey A. Roberts; W. F. Root; William J. Sallans; Lois Schuermann; Sam F. Shakely, Jr.; E. A. Smith; George L. Smith; and Howard Upton.

CHAPTER 11
CATTLE GUARDS AROUND THE WORLD

Information for this chapter came in part from:


"Fencing and Gates." The Roads Ordinance, 1933, Province of Transvaal, chap. 8, pp. 33-36.

"Fencing and Gates." Road Ordinance and Resolutions, 1957, Province of Transvaal, chap. 8, pp. 30-32.

Four cattle-grid specification sheets from Transvaal.


These correspondents and informants provided information about the use of cattle guards in other countries: Argentina—Victor H. Pastor and Norman Schlesener; Australia—C. M. H. Clark, James R. Smith, Russel Ward, and Boyd Wilson; Brazil—Sister Anne Gawley, Luiz Felipe de Seixas Corrêa, and the Reverend Carl J. Hahn; Canada—Lindsay Barnham, W. J. Campbell, W. C. Gordon, Alex Johnston, Dian Latiff, Omer Lavallée, John P. Miska, Agnes K. Rice, A. D. Ridge, "Lucky"
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